

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date 17 June 2004 (17.06.2004)

PCT

(10) International Publication Number WO 2004/050859 A3

- (51) International Patent Classification⁷: C12N 15/85, A61K 48/00
- (21) International Application Number: PCT/US2003/038811
- (22) International Filing Date:
 25 November 2003 (25.11.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

- (30) Priority Data: 60/429,631 27 November 2002 (27.11.2002) U
- (71) Applicant (for all designated States except US): RE-GENTS OF THE UNIVERSITY OF MINNESOTA [US/US]; 110 Washington Avenue South, Minneapolis, MN 55455 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): VERFAILLIE, Catherine [US/US]; 585 Cretin Avenue South, St. Paul, MN 55116 (US). LAKSHMIPATHY, Uma [US/US]; Stem Cell Institute, University of Minnesota, 420 Delaware Street SE, Minneapolis, MN 55455 (US).

- (74) Agent: LAWRENCE, William, F.; Frommer Lawrence & Haug LLP, 745 Fifth Avenue, New York, NY 10151 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- (88) Date of publication of the international search report: 12 August 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38811

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 15/85; A61K 48/00 US CL : 435/325; 514/44				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)				
U.S. : 435/325; 514/44				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN: EMBASE BIOSIS CAPLUS				
C. DOCUMENTS CONSIDERED TO BE RELEVANT Circuity of degrees with indication where appropriate of the relevant passages Relevant to claim No.				
Category * Citation of documen	Citation of document, with indication, where appropriate, of the relevant passages			
A Database EMBASE on S Efficient Transfection of	Database EMBASE on STN, LAKSHMIPATHY, U et al. 'A Non-viral Method for . Efficient Transfection of Embryonic and Adult Stem Cells.' Blood, 16 November 2003, Vol. 102, No. 11, pp. 492b, see Abstract.			1-20
Further documents are listed in t	he continuation of Box C.		See patent family annex.	
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date 			T later document published after the international filing date or priorit date and not in conflict with the application but cited to understand to principle or theory underlying the invention	
		"X" document of particular relevance; considered novel or cannot be con when the document is taken alone		claimed invention cannot be tred to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document referring to an oral disclosure, u	se, exhibition or other means		being obvious to a person skilled in th	e art
P document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report 28 MAY 2004		
09 May 2004 (09.05.2004) Name and mailing address of the ISA/US		Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Celine Qian, Ph.D. J. Roberts fr		
F.O. Box 1330 Alexandria, Virginia 22313-1450 Facsimile No. (703) 872-9306		Telephone	e No. (571) 272-1600	